



PATENT
P56956

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JUN-SEOG KIM

Serial No.: 10/773,335

Examiner: LE, DIEU-MINH T

Filed: 9 February 2004

Art Unit: 2114

For: METHOD AND APPARATUS FOR SUPPORTING ERROR CAUSE OF SNMP

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references. Under 37 C.F.R. §1.98(a)(2) however, copies of U.S. patent reference(s) are not provided.

U.S. PATENT REFERENCE(S):

- U.S. Patent No. 5,991,814 to Rzonca *et al.*, entitled *METHOD AND APPARATUS FOR CONTROLLING COMMAND LINE TRANSFER TO A NETWORK ELEMENT*, issued on 23 November 1999.

Folio: P56956
Date: 11/1/06
I.D.: REB/ny

OTHER DOCUMENT:

- Xu *et al.*, "An Improved Error Handling Method in SNMPv2 Protocol Operations", J. Comput. Sci. & Technol. Vol. 16, No. 1, pp. 92-95, January 2001; and
- *Office action* from the State Intellectual Property Office of People's Republic of China issued in Applicant's corresponding Chinese Patent Application No. 200410004132.8 dated 11 August 2006.

DISCUSSION

As written in the Office action issued by the State Intellectual Property Office of People's Republic of China on the 11 August 2006 in applicant's corresponding Chinese Patent Application corresponding to applicant's above-captioned U.S. Patent Application, **Rzonca *et al.*'814** discloses that A method and apparatus for controlling command line transfer to a network element. The method and apparatus allow for transfer of command lines such as command lines in the Transaction Language 1 syntax, to a designated network element based upon a wait duration as well as based upon the maximum number of outstanding command lines for which acknowledgement has not yet been received from the network element to whom the command line was directed. As long as the maximum number of outstanding unacknowledged command lines is less than the maximum number set, command lines are transferred to the network element after waiting an amount of time equal to the wait duration. The overall result is that command lines can be directed to network elements with assurance that the commands will be properly executed by the network element. Furthermore, the network element can, to the extent that the command line causes a change in an equipment database associated thereto, appropriately modify the equipment database in the network element and cause such information to be transferred to an overall equipment database containing similar information for all network elements under the control of a network management system.

Xu et al. discloses that SNMPv1 is very successful due to its simplicity, flexibility, and extensibility. However, simplicity can also be a drawback. In SNMPv1, a manager can only retrieve one piece of information at a time, and an agent merely reports one error to its manager, though there may be several errors having occurred during the protocol operations. These two interactions enlarge the number of protocol exchanges between a manager and an agent. SNMPv2 permits the retrieval of large data blocks, but the errors can only be handled one by one. These errors continually occur in protocol operations. In this method, all errors within a received PDU (Protocol Data Unit) can be detected by the agent simultaneously.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

Pursuant to 37 CFR § 1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three(3) months prior to the filing of the statement.

No fee is incurred by this Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R. E. Bushnell', is written over a horizontal line.

Robert E. Bushnell

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INFORMATION DISCLOSURE STATEMENT PTO-1449 (PAGE 1 OF 1)	SERIAL NUMBER 10/773,335	DOCKET NO. P56956
	APPLICANT JUN-SEOG KIM	
	FILING DATE 9 February 2004	GROUP 2114

U.S. PATENT DOCUMENTS							
EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,991,814	11/23/99	Rzonca et al.				

FOREIGN PATENT DOCUMENTS						TRANSLATION	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	
	Xu <i>et al.</i> , "An Improved Error Handling Method in SNMPv2 Protocol Operations", J. Comput. Sci. & Technol. Vol. 16, No. 1, pp. 92-95, January 2001
	Office action from the State Intellectual Property Office of People's Republic of China issued in Applicant's corresponding Chinese Patent Application No. 200410004132.8 dated 11 August 2006

EXAMINER:	DATE CONSIDERED:
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.